Distributed by:

JAMECO® ELECTRONICS

**www.Jameco.com ✦ 1-800-831-4242**

The content and copyrights of the attached material are the property of its owner.

# MEAN WELL

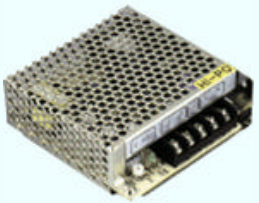
## SWITCHING POWER SUPPLY

**ISO-9001 CERTIFIED MANUFACTURER**

# SD-25 SERIES

Jameco Part Number 212556

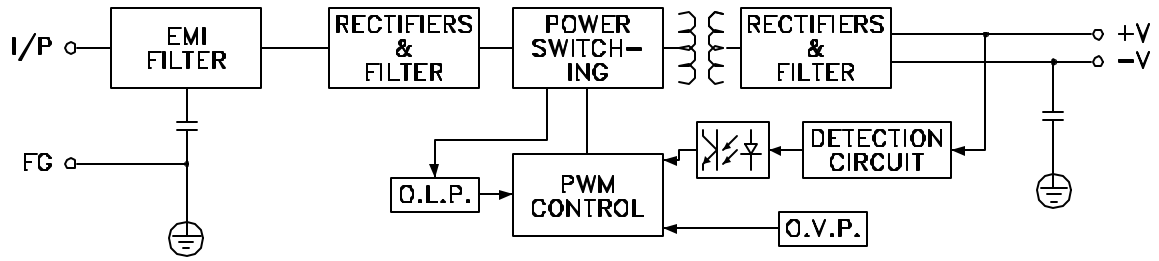
.LOW COST, HIGH RELIABILITY .100% FULL LOAD BURN-IN TEST
.105°C OUTPUT CAPACITOR
.BUILT IN EMI FILTER, LOW RIPPLE NOISE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.COMPACT SIZE, LIGHT WEIGHT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED



| MODEL / SPECIFICATION | SD-25A-5 | SD-25B-5 | SD-25C-5 | SD-25A-12 | SD-25B-12 | SD-25C-12 | SD-25A-24 | SD-25B-24 | SD-25C-24 |
|---|---|---|---|---|---|---|---|---|---|
| DC OUTPUT VOLTAGE | 5V | | | 12V | | | 24V | | |
| OUTPUT V. TOLERANCE | ±2% | | | ±1% | | | ±1% | | |
| OUTPUT RATED CURRENT | 5A | | | 2.1A | | | 1.1A | | |
| OUTPUT CURRENT RANGE | 0-5A | | | 0-2.1A | | | 0-1.1A | | |
| RIPPLE & NOISE | 100mVp-p | | | 120mVp-p | | | 150mVp-p | | |
| LINE REGULATION | ±0.5% | | | ±0.3% | | | ±0.2% | | |
| LOAD REGULATION | ±0.5% | | | ±0.3% | | | ±0.2% | | |
| DC OUTPUT POWER | 25W | | | 25.2W | | | 26.4W | | |
| EFFICIENCY | 71% | 72% | 74% | 72% | 75% | 78% | 75% | 78% | 81% |
| DC VOLTAGE ADJ. | 4.5-5.5V | | | 11-16V | | | 23-30V | | |
| INPUT VOLTAGE RANGE | A:9.2~18VDC B:19~36VDC C:36~72VDC | | | | | | | | |
| INPUT CURRENT | A:3.2A/12V B:1.6A/24V C:0.8A/48V | | | | | | | | |
| INRUSH CURRENT | ---------- | | | | | | | | |
| LEAKAGE CURRENT | ---------- | | | | | | | | |
| OVERLOAD PROTECTION | 105%~150% TYPE:FOLDBACK CURRENT LIMITING RESET:AUTO RECOVERY | | | | | | | | |
| OVER VOLTAGE PROTECTION | 5.75V~6.75V/10% LOAD | | | 16.8V~20V/10% LOAD | | | 31.5V~37.5V/10% LOAD | | |
| OVER TEMP. PROTECTION | ---------- | | | | | | | | |
| TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | | | | | | |
| SETUP, RISE, HOLD UP TIME | 2.5s, 50ms, ---------- | | | | | | | | |
| VIBRATION | 10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES | | | | | | | | |
| WITHSTAND VOLTAGE | I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | | | | | |
| ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms | | | | | | | | |
| WORKING TEMP., HUMIDITY | -10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH | | | | | | | | |
| STORAGE TEMP., HUMIDITY | -20°C~+85°C, 10%~95% RH | | | | | | | | |
| DIMENSION | 99*97*35mm CASE:905 | | | | | | | | |
| WEIGHT | 0.36Kgs | | | | | | | | |
| SAFETY STANDARDS | ---------- | | | | | | | | |
| EMC STANDARDS | EN55022 CLASS B (RADIATION), EN61000-4-2,3,4,6,8 ENV50204 VERIFICATION | | | | | | | | |

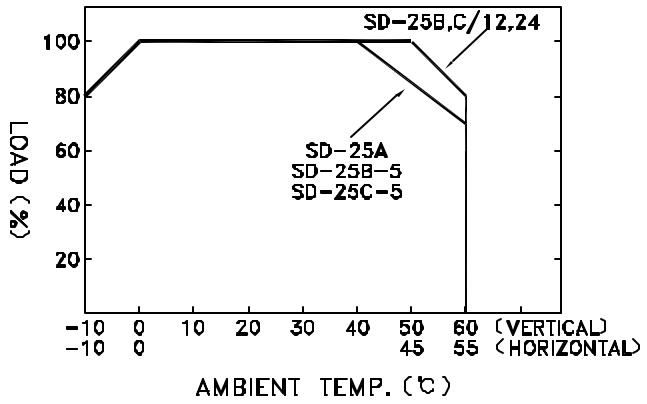
NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.TOLERANCE:INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD

## BLOCK DIAGRAM

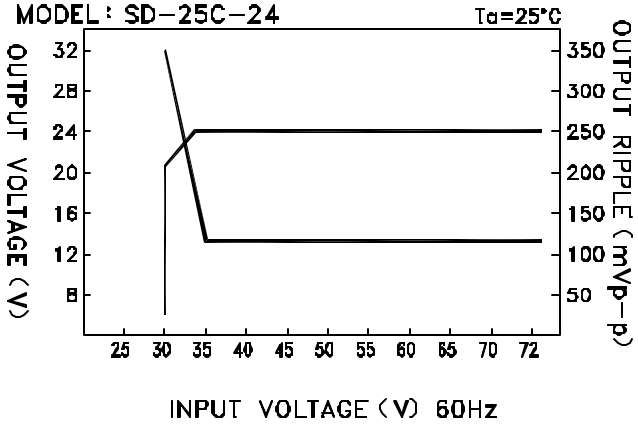



fosc : 83KHz

## OUTPUT DERATING




## STATIC CHARACTERISTICS




## DIMENSION (mm)

- ☒ CASE : 905
- ☒ TERMINAL PIN NO. ASSIGNMENT
  - ☒ PIN 1 : DC INPUT V−
  - ☒ PIN 2 : DC INPUT V+
  - ☒ PIN 3 : FG ⏚
  - ☒ PIN 4 : DC OUTPUT +V
  - ☒ PIN 5 : DC OUTPUT −V